

What Is Claimed Is:

1. A sensor assembly for an automatic dryer having a rotatable drum containing a load of wet clothes to be dried, the sensor assembly comprising:

a bulkhead having an air outlet opening that exhausts humidified air from the drum;

an electrically non-conductive sensor body secured directly to the bulkhead, the sensor body being positioned so as to cover a portion of the air outlet opening; and

at least one sensing element disposed on a first surface of the sensor body, the at least one sensing element being exposed to inside of the drum so as to make contact with the wet clothes.

2. The sensor assembly of claim 1, wherein the sensor body includes an extension member extended from a second surface of the sensor body and a first mounting bracket having an aperture provided thereon is extended from the bulkhead, the extension member being inserted into the aperture for slip fit engagement with the first mounting bracket.

3. The sensor assembly of claim 2, wherein a first end of the sensory body includes a screw hole adapted to receive a screw for securing the first end to a second mounting bracket extended from the bulkhead.

4. The sensor assembly of claim 2, wherein the extension member of the sensor body includes a detent which engages with the first mounting bracket to prevent the extension member from being disengaged from the first mounting bracket.

5. The sensor assembly of claim 1, wherein a first end of the sensor body includes a

first screw hole adapted to receive a first screw for securing the first end directly to the bulkhead, and wherein a second end of the sensor body includes a second screw hole adapted to receive a second screw for securing the second end to a mounting bracket extended from the bulkhead.

6. The sensor assembly of claim 1, wherein a first end of the sensor body includes a slot adapted to receive a thin portion of the bulkhead for securing the first end to the thin portion of the bulkhead, and wherein a second end of the sensor body includes a screw hole adapted to receive a screw for securing the second end to a mounting bracket extended from the bulkhead.

7. The sensor assembly of claim 1, further comprising a perforated air outlet grill secured to the bulkhead, wherein the air outlet grill covers the remaining portion of the air outlet opening.

8. The sensor assembly of claim 7, wherein the air outlet grill includes a plurality of screw holes adapted to receive a plurality of screws for securing the air outlet grill to the bulkhead.

9. The sensor assembly of claim 7, wherein the air outlet grill includes a caved channel formed on a lower circumferential edge of the air outlet grill for receiving the sensor body.

10. The sensor assembly of claim 9, wherein the sensor body includes a groove

formed on an upper edge of the first surface and the air outlet grill includes a ridge that engages with the groove for pressing down the upper edge of the first surface so as to prevent disengagement of the sensor body from the caved channel of the air outlet grill.

11. The sensor assembly of claim 9, wherein the first surface of the sensor body is slopped away from a surface of the air outlet grill to thereby project into the inside of the drum for improved contact with the wet clothes.

12. The sensor assembly of claim 1, wherein the first surface of the sensor body is slopped away from the bulkhead to thereby project into the inside of the drum for improved contact with the wet clothes.

13. An automatic dryer, comprising:

a cabinet;

a drum rotatably provided in the cabinet for containing a load of wet clothes to be dried;

a rear bulkhead comprising an air inlet opening that exhausts dry air into the drum;

a front bulkhead comprising an air outlet opening that exhausts humidified air from the drum;

an electrically non-conductive sensor body secured directly to the front bulkhead, the sensor body being positioned so as to cover a portion of the air outlet opening;

at least one sensing element disposed on a first surface of the sensor body, the at least one sensing element being exposed to inside of the drum so as to make contact with the wet clothes; and

a perforated air outlet grill being rigidly secured to the front bulkhead and covering the remaining portion of the air outlet opening.

14. The automatic dryer of claim 13, wherein the sensor body includes an extension member extended from a second surface of the sensor body and a first mounting bracket having an aperture provided thereon is extended from the front bulkhead, the extension member being inserted into the aperture for slip fit engagement with the first mounting bracket.

15. The automatic dryer of claim 14, wherein a first end of the sensory body includes a screw hole adapted to receive a screw for securing the first end to a second mounting bracket extended from the front bulkhead.

16. The automatic dryer of claim 14, wherein the extension member of the sensor body includes a detent which engages with the first mounting bracket to prevent the extension member from being disengaged from the first mounting bracket.

17. The automatic dryer of claim 12, wherein a first end of the sensor body includes a first screw hole adapted to receive a first screw for securing the first end directly to the front bulkhead, and wherein a second end of the sensor body has a second screw hole adapted to receive a second screw for securing the second end to a mounting bracket extended from the front bulkhead.

18. The automatic dryer of claim 12, wherein a first end of the sensor body includes a

slot adapted to receive a thin portion of the front bulkhead for securing the first end to the thin portion of the front bulkhead, and wherein a second end of the sensor body includes a screw hole adapted to receive a screw for securing the second end to a mounting bracket extended from the front bulkhead.

19. The automatic dryer of claim 12, wherein the air outlet grill includes a plurality of screw holes adapted to receive a plurality of screws for securing the air outlet grill to the front bulkhead.

20. The automatic dryer of claim 12, wherein the air outlet grill includes a caved channel formed on a lower circumferential edge of the air outlet grill for receiving the sensor body.

21. The automatic dryer of claim 20, wherein the sensor body includes a groove formed on an upper edge of the first surface and the air outlet grill includes a ridge that engages with the groove for pressing down the upper edge of the first surface so as to prevent disengagement of the sensor body from the caved channel of the air outlet grill.

22. The automatic dryer of claim 20, wherein the first surface of the sensor body is slopped away from a surface of the air outlet grill to thereby project into the inside of the drum for improved contact with the wet clothes.

23. The automatic dryer of claim 12, the first surface of the sensor body is slopped away from the front bulkhead to thereby project into the inside of the drum for improved

contact with the wet clothes.